

CLAIM AMENDMENTS:

1. (currently amended) An apparatus (10) for the processing of substantially planar workpieces (14), which can be moved in a transport plane (34) relatively to the apparatus (10), the apparatus containing at least one grinding head (18a, 18b, 18c, 18d) with a tool carrier (20) rotatable around a carrier axis (22) which is orthogonal with respect to the transport plane (34) and with several grinding brushes (24, 40, 46) drivable by a planetary gear drive and containing a brush body (30, 44, 50) and bristles attached thereto (32, 42, 48) being mounted to the tool carrier so that they can be rotated individually around their individual brush axes (26) which are orthogonal with respect to the transport plane (34), characterized in that wherein the ends of the bristles (32, 42, 48) of each single grinding brush (24, 40, 46) are arranged at various distances to the transport plane (34).

2. (previously presented) An apparatus (10) according to claim 1, further characterized in that the bristles (32) of each single grinding brush (24) differ in length.

3. (currently amended) An apparatus (10) according to claim 1 or 2, further characterized in that the brush bodies (44) are tilted with respect to the transport plane (34) ~~and the brush axes (26) are orthogonal with respect to the transport plane (34).~~

4. Please Cancel Claim 4.

5. (previously presented) An apparatus (10) according to one of the preceding claims, further characterized in that the distances between the ends of the bristles and the transport plane (34) differ by 1 to 2 cm.

6. (previously presented) An apparatus (10) according to one of the preceding claims, further characterized in that the apparatus contains several grinding heads (18a, 18b, 18c, 18d) which are arranged in two rows extending transversely to the transport direction of the workpiece (14), which rows are arranged one behind the other in the feed direction (16) of the workpiece (14) with the two rows of grinding heads being

offset to each other in a direction transversely to the transport direction (16) of the workpieces (14) in such a manner that the grinding heads (18b resp. 18c) of one row - when viewed in the transport direction (16) of the workpiece (14) - close the gaps between the grinding heads (18c, 18d resp. 18a, 18b).

7. (previously presented) An apparatus according to any of claims 1 to 6, further characterized in that the bristles of at least one of the grinding brushes differ from the bristles of the other grinding brushes in at least one of their material characteristics, structure, texture, hardness, thickness and trimming length.

8. (previously presented) An apparatus according to any of claims 1 to 7, further characterized in that the infeed of at least some of the grinding brushes can be adjusted individually.

9. (previously presented) An apparatus according to any of claims 1 to 7, further characterized in that the infeed can be adjusted for sets of grinding brushes of the same type.